

REMARKS

Claims 1-59 were previously pending in this application. Claims 10, 17, 20, and 55 have been cancelled by this amendment. Claims 11 and 14 have been amended to correct their dependencies because of cancelled claim 10. Accordingly, claims 1-9, 11-16, 18-19, 21-54, and 56-59 are now pending.

Reconsideration of the pending claims is respectfully requested in light of the following remarks.

Claim Objections

Claims 18 and 53 were objected to because of informalities related to inconsistent terminology. Applicants have amended claims 18 and 53 to address these informalities.

Applicants therefore respectfully request that the objection to claims 18 and 53 be withdrawn.

Rejections Under 35 U.S.C. § 102

Claims 1-16, 18-19, and 21-45 were rejected under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 6,205,133 to Bexten (hereafter "*Bexten*"). Applicants respectfully traverse.

The Examiner indicated that claims 17 and 20 contain allowable subject matter. Claim 1 has been amended to recite the limitations of allowable claim 17 and intervening claim 10. Independent claim 18 has been amended to recite the limitations from allowable claim 20. Likewise, independent claims 29 and 34 have also been amended to recite limitations similar to those of allowable claim 20.

Accordingly, present claims 1, 18, 29, and 34 are not anticipated by *Bexten*. Since claims 2-16 depend from claim 1, claims 19 and 21-28 depend from claim 18, claims 30-33 depend from claim 29, and claims 35-42 depend from claim 34, all of these dependent claims include the limitations of claims 1, 18, 29, or 34, respectively. Thus, dependent claims 2-16, 19, 21-28, 30-33, and 35-42 are also not anticipated by *Bexten*.

Independent claim 43 has been amended to recite *inter alia* “a plurality of front-end circuits each of which is operable to receive a plurality of radio signals transmitted across a frequency band and generate analog signals that are combined into a composite analog signal” and “a single analog to digital converter operable to receive the composite analog signal and convert the composite analog signal to a single digital signal.” Support for amended claim 43 can be found in the application as filed on page 3, line 24 to page 4, line 7; page 13, line 10 to page 14, line 16; and Figure 2.

There is no teaching or suggestion in *Bexten* of “a plurality of front-end circuits” that “generate analog signals that are combined into a composite analog signal” and “a single analog to digital converter operable to receive the composite analog signal” as recited in present claim 43. Rather, *Bexten* teaches a plurality of front-end circuits (each with antenna 205, amplifier 215, filter 510) that are each coupled to a separate analog-to-digital converter (ADC) 220 (see Figure 5).

Accordingly, present claim 43 is not anticipated by *Bexten*. Since claims 44 and 45 depend from claim 43, claims 44 and 45 include the limitations of claim 43. Thus, dependent claims 44 and 45 are also not anticipated by *Bexten*.

Applicants therefore respectfully request that the rejection of claims 1-16, 18-19, and 21-45 under 35 U.S.C. § 102(b) be withdrawn.

Claims 1, 4-7, 18-19, 21-24, 29-37, and 43 were rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,898,235 to Carlin et al. (hereafter “*Carlin*”). Applicants respectfully traverse.

As discussed previously, claim 1 has been amended to recite the limitations of allowable claim 17 and intervening claim 10. Independent claim 18 has been amended to recite the limitations from allowable claim 20. Likewise, independent claims 29 and 34 have also been amended to recite limitations similar to those of allowable claim 20.

Accordingly, present claims 1, 18, 29, and 34 are not anticipated by *Carlin*. Since claims 4-7 depend from claim 1, claims 19 and 21-24 depend from claim 18, claims 30-33 depend from claim 29, and claims 35-37 depend from claim 34, all of these dependent claims include the limitations of claims 1, 18, 29, or 34, respectively. Therefore, dependent claims 4-7, 19, 21-24,

30-33, and 35-37 are also not anticipated by *Carlin*.

As discussed above, independent claim 43 has been amended to recite *inter alia* “a plurality of front-end circuits each of which is operable to receive a plurality of radio signals transmitted across a frequency band and generate analog signals that are combined into a composite analog signal” and “a single analog to digital converter operable to receive the composite analog signal and convert the composite analog signal to a single digital signal.”

There is no teaching or suggestion in *Carlin* of “a plurality of front-end circuits” that “generate analog signals that are combined into a composite analog signal” and “a single analog to digital converter operable to receive the composite analog signal” as recited in present claim 43. Rather, *Carlin* teaches a plurality of front-end circuits (each with antenna 5, wide band receiver 110) that are each coupled to a separate ADC 210 (see Figures 1b and 6). Accordingly, present claim 43 is not anticipated by *Carlin*.

Applicants therefore respectfully request that the rejection of claims 1, 4-7, 18-19, 21-24, 29-37, and 43 under 35 U.S.C. § 102(e) be withdrawn.

Claims 1, 5-7, 9, 34-37, and 43 were rejected under 35 U.S.C. § 102(a) as being anticipated by U.S. Patent No. 6,496,546 to Allpress et al. (hereafter “*Allpress*”). Applicants respectfully traverse.

As discussed previously, claim 1 has been amended to recite the limitations of allowable claim 17 and intervening claim 10. Independent claim 34 has also been amended to recite limitations similar to those of allowable claim 20.

Accordingly, present claims 1 and 34 are not anticipated by *Allpress*. Since claims 5-7 and 9 depend from claim 1, and claims 35-37 depend from claim 34, these dependent claims include the limitations of claims 1 or 34, respectively. Thus, dependent claims 5-7, 9, and 35-37 are also not anticipated by *Allpress*.

As discussed above, independent claim 43 has been amended to recite *inter alia* “a plurality of front-end circuits each of which is operable to receive a plurality of radio signals transmitted across a frequency band and generate analog signals that are combined into a composite analog signal” and “a single analog to digital converter operable to receive the composite analog signal and convert the composite analog signal to a single digital signal.”

There is no teaching or suggestion in *Allpress* of “a plurality of front-end circuits” that “generate analog signals that are combined into a composite analog signal” and “a single analog to digital converter operable to receive the composite analog signal” as recited in present claim 43. Rather, *Allpress* teaches a receiver 301 in which a single front-end circuit (antenna 208, RF-to-IF converter 401) is coupled to a single ADC 402 (see Figure 4). Accordingly, present claim 43 is not anticipated by *Allpress*.

Applicants therefore respectfully request that the rejection of claims 1, 5-7, 9, 34-37, and 43 under 35 U.S.C. § 102(a) be withdrawn.

Rejections Under 35 U.S.C. § 103

Claims 46-54 and 56-59 were rejected under 35 U.S.C. § 103(a) as being unpatentable over *Bexten* in view of U.S. Patent No. 6,816,715 to *Mano* (hereafter “*Mano*”). Applicants respectfully traverse.

Initially, Applicants note that *Mano* was not cited on form PTO-892 provided by the Examiner. Thus, Applicants request an updated form PTO-892 with *Mano* cited therein.

Independent claim 46 has been amended to recite limitations similar to those of allowable claim 17 and claim 10. Such limitations are not taught or suggested in *Bexten* or *Mano*.

The Examiner indicated that claim 55 contains allowable subject matter. Independent claim 53 has been amended to recite the limitations from allowable claim 55. Likewise, independent claim 57 has also been amended to recite limitations similar to those of allowable claim 55.

Accordingly, present claims 46, 53, and 57 would not have been obvious over *Bexten* in view of *Mano*. Since claims 47-52 depend from claim 46, claims 54 and 56 depend from claim 53, and claims 58-59 depend from claim 57, all of these dependent claims include the limitations of claims 46, 53, or 57, respectively. Thus, dependent claims 47-52, 54, 56, 58, and 59 also would not have been obvious over *Bexten* in view of *Mano*.

Applicants therefore respectfully request that the rejection of claims 46-54 and 56-59 under 35 U.S.C. § 103(a) be withdrawn.

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Title: RADIO RECEIVER

CONCLUSION

Applicants respectfully submit that the presently pending claims are in condition for allowance and notification to that effect is earnestly requested. If necessary, please charge any additional fees or credit overpayments to Deposit Account No. 502432.

If the Examiner has any questions or concerns regarding this application, please contact the undersigned at 612-332-4720.

Respectfully submitted,

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